## Claims

- A reagent for determination of leucocytes and of basophil polymorphonuclear leucocytes as well as for measurement of haemoglobin in a sample of blood, comprising:
- a buffer system that is suited to adjust selectively the pH of the reagent to an acidic value, in particular to a value lower than 3;
  - at least one detergent of cationic type;
  - a nitrogenous compound.

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- 2. The reagent of Claim 1, wherein the buffer system is suited to adjust the pH to a value equal to 2.4.
- 3. The reagent according to Claim 1 wherein the buffer 20 system is selected from the group comprising:
  - potassium chloride / hydrochloric acid;
  - tartaric acid / sodium hydroxide;

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- citric acid / sodium hydroxide;
- potassium hydrogen phthalate / hydrochloric acid;
- 30 citric acid / disodium hydrogen phosphate; and
  - boric acid / citric acid / potassium dihydrogen phosphate.

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- 4. The reagent of Claim 1, wherein the detergent is selected from the group comprising:
- the primary amines, the acetates and hydrochlorides of fatty amines;
  - the quaternary ammonium salts and trimethylethylammonium bromide;
- 10 the amides of substituted diamines, cationised by ethyl sulfate, diethanolaminopropylamine or diethylaminopropylamide; and
  - the amides of cyclised diethylenetriamine.

5. The reagent of Claim 1, wherein the nitrogenous compound is a thiourea.

- 6. The reagent of Claim 5 wherein the thiourea is 1,3-20 dimethyl-2-thiourea.
  - 7. The reagent of Claim 1, further comprising at least one inorganic salt.
- 25 8. The reagent of Claim 7, wherein the inorganic salt is an alkali-metal salt.
- 9. The reagent of Claim 7, wherein the inorganic salt is selected from the group comprising chlorides and sulfates 30 of sodium or potassium.
  - 10. The reagent of <u>Claim</u> 1, wherein the detergent is present in a concentration of 0.2-20 g/l and the

nitrogenous compound is present in a concentration of 0.110 g/1.

11. The reagent of Claim 1, having the following composition:

	Compounds	Concentrátions
10	potassium chloride	5-10 g/l
	1,3-dimethyl-2-thiourea	0.5-3 g/l
	dodecyltrimethylammonium chloride	0.5-5 g/l
15	potassium hydrogen phosphate / HCl	1.0-10 g/l